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Material Safety
Data Sheet (MSDS)

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Date Prepared: 01/14/02

Date Printed: 06/02/03

MSDS No: 503.0177220-001.012

WINDSHIELD WASHER ANTI-FREEZE

Page 001

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: WINDSHIELD WASHER ANTI-FREEZE

SAP Material No: NM7350

General or Generic ID: SOLVENT BLEND

Company

The Valvoline Company

P.O. Box 14000

Lexington, KY 40512

Telephone Numbers

Emergency: 1-800-274-5263

Information: 1-859-357-7206

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by volume)
METHYL ALCOHOL	67-56-1	99.6

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause eye irritation.

Skin

May cause mild skin irritation. Prolonged or repeated contact may dry and crack the skin.

Swallowing

Swallowing this material may be harmful.

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Inhalation

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

Symptoms of Exposure

stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), visual impairment (including blindness), and death.

Target Organ Effects

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate preexisting disorders of these organs in humans: cardiac abnormalities, liver abnormalities, spleen damage, nervous system damage, eye damage, kidney damage, lung damage, brain damage, Overexposure to this material (or its

components) has been suggested as a cause of the following effects in humans, and may aggravate preexisting disorders of these organs: eye damage visual impairment.

Developmental Information

No data

Cancer Information

No data

Other Health Effects

No data

Primary Route(s) of Entry

Inhalation, Skin absorption, Skin contact.

4. FIRST AID MEASURES

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate

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medical attention.

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Note to Physicians

This product contains methanol which can cause intoxication and central nervous system depression. Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively removed by hemodialysis. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin.

5. FIRE FIGHTING MEASURES

Flash Point

50.0 - 60.0 F (10.0 - 15.5 C) TCC

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Explosive Limit

No data

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide.

Fire and Explosion Hazards

Material is highly volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Extinguishing Media

alcohol foam, water fog.

Fire Fighting Instructions

Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating

Health - 1, Flammability - 3, Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES**Small Spill**

Absorb liquid on vermiculite, floor absorbent, or other absorbent material and transfer to hood.

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Large Spill

Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

7. HANDLING AND STORAGE**Handling**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Storage

Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Eye Protection**

Not required under normal conditions of use.

Skin Protection

Not required under normal conditions of use., Other protective equipment: not required under normal conditions of use..

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Respiratory Protections

Not required under normal conditions of use.

Engineering Controls

Not required under normal conditions of use.

Exposure Guidelines

Component

METHYL ALCOHOL (67-56-1)
OSHA VPEL 200.000 ppm - TWA ((Skin))
OSHA VPEL 250.000 ppm - STEL ((Skin))
ACGIH TLV 200.000 ppm - TWA ((Skin))
ACGIH TLV 250.000 ppm - STEL ((Skin))

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point
No data
Vapor Pressure
No data
Specific Vapor Density
No data
Specific Gravity
.790 - .801 @ 77.00 F
Liquid Density
6.640 lbs/gal @ 77.00 F
.795 kg/l @ 25.00 C

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Percent Volatiles (Including Water)

> 95.0 %
Volatile Organic Compounds (VOC) (Maximum)
100.000 %
Evaporation Rate
SLOWER THAN ETHYL ETHER
Appearance
CLEAR
State
LIQUID
Physical Form
No data
Color
BLUE
Odor
No data
pH
Not applicable

10. STABILITY AND REACTIVITY

Hazardous Polymerization
Product will not undergo hazardous polymerization.
Hazardous Decomposition
May form: carbon dioxide and carbon monoxide.

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Chemical Stability

Stable.
Incompatibility
Avoid contact with: strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

No data

12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATION

Waste Management Information

Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION
 DOT Information - 49 CFR 172.101
 DOT Description:
 FLAMMABLE LIQUIDS, N.O.S., 3, UN 1993, II
 Container/Mode:
 CASES/SURFACE - NO EXCEPTIONS

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NOS Component:
 METHANOL
 RQ (Reportable Quantity) - 49 CFR 172.101
 Product Quantity (lbs) Component

 5025 METHANOL

15. REGULATORY INFORMATION
 US Federal Regulations
 TSCA (Toxic Substances Control Act) Status
 TSCA (UNITED STATES) The intentional ingredients of this product are listed.
 CERCLA RQ - 40 CFR 302.4
 Component Component

 METHYL ALCOHOL 5000
 SARA 302 Components - 40 CFR 355 Appendix A
 None
 Section 311/312 Hazard Class - 40 CFR 370.2
 Immediate(X) Delayed(X) Fire(X) Reactive() Sudden
 Release of Pressure()
 SARA 313 Components - 40 CFR 372.65
 Section 313 Component(s) CAS Number

 METHANOL 67-56-1
 International Regulations
 Inventory Status
 Not determined

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State and Local Regulations
 California Proposition 65
 None
 New Jersey RTK Label Information
 METHYL ALCOHOL 67-56-1
 Pennsylvania RTK Label Information
 METHANOL 67-56-1

16. OTHER INFORMATION
 The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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